

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

**San Joaquin River Basin**

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<b>RD2063</b>  <b>Reclamation District No. 2063 Crows Landing</b>	Overall LMA Rating	Total LMA Miles						
	<b>U</b>	<b>10.63</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.10		1.10	10.35%				
Encroachments					0.81	0.47		
Animal Control	0.11		0.11	1.04%				
Erosion / Bank Caving	0.02	0.01	0.06	0.56%				
Crown Surface / Depressions / Rutting	10.58		10.58	99.53%				
<i>LMA Totals:</i>	11.81	0.01	11.85	111.48%	0.81	0.47	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**

**LMA District Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2063 Crows Landing**

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	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2063 Crows Landing**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	10.63
	Spring (March - May)	Summer (June - August)	(September - November) <b>Fall</b>	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/22/2012 - 05/22/2012		11/14/2012 - 11/14/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No.	Levee Mile		Category	Item	* Location + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Start End Photo	
	Start	End					Start	End		
1	Earthen Levee	Operations & Maintenance Manuals	LS A Ma				°	°	35	
									DWR ID: DWR_RD2063_01_s_2012_35	
2	Earthen Levee	Emergency Supplies & Equipment	LS A Ma				°	°	36	
									DWR ID: DWR_RD2063_01_s_2012_36	
3	Earthen Levee	Flood Preparedness & Training	LS A Ma				°	°	37	
									DWR ID: DWR_RD2063_01_s_2012_37	
4	0.00 10.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C3 : Add appropriate gravel or road base. Grade and compact.		37.478842 ° -121.044627 °	37.390455 ° -120.941945 °	27	
									DWR ID: DWR_RD2063_01_s_2012_27	
5	0.02 0.51	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		37.478550 ° -121.044603 °	37.471548 ° -121.044553 °	3	
									DWR ID: DWR_RD2063_01_s_2012_3	
6	0.02 0.51	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		37.478548 ° -121.044605 °	37.471545 ° -121.044553 °	2	
									DWR ID: DWR_RD2063_01_s_2012_2	
7	0.03 0.49	Earthen Levee	Encroachments	LS U En	DT : Ditch Inspector Comments: Ditch on landside has encroached into the berm and toe of the levee.		37.478470 ° -121.044598 °	37.471848 ° -121.044635 °	18	
									DWR ID: DWR_RD2063_01_s_2012_18	
8	0.14 0.22	Earthen Levee	Encroachments	LS A/W En	PR : Prunings		37.476855 ° -121.044622 °	37.475658 ° -121.044603 °	16	
									DWR ID: DWR_RD2063_01_s_2012_16	
9	1.35 1.35	Earthen Levee	Encroachments	LS M En	RA : Ramp Inspector Comments: Ramp does not meet CVFPB standards. Ramp has 18-20" vertical cut at landside shoulder.		37.464308 ° -121.032603 °	37.464308 ° -121.032603 °	6	
									DWR ID: DWR_RD2063_01_s_2012_6	
10	1.47 1.50	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		37.462723 ° -121.032020 °	37.462303 ° -121.031928 °	8	
									DWR ID: DWR_RD2063_01_s_2012_8	
11	1.54 1.54	Earthen Levee	Slope Stability	LS A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.		37.461762 ° -121.031822 °	37.461762 ° -121.031822 °	10	
									DWR ID: DWR_RD2063_01_s_2012_10	
12	1.57 1.57	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.		37.461322 ° -121.031785 °	37.461322 ° -121.031785 °	4	
									DWR ID: DWR_RD2063_01_s_2012_4	
13	1.69 1.69	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.		37.459813 ° -121.032372 °	37.459813 ° -121.032372 °	11	
									DWR ID: DWR_RD2063_01_s_2012_11	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LWR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
14	1.81	2.52	Earthen Levee	Encroachments	LS En	M	FE : Fence	37.458350 °	37.449895 °	19	
								-121.033624 °	-121.028047 °		
								DWR ID: DWR_RD2063_01_f_2012_19			
15	1.88	1.92	Earthen Levee	Erosion / Bank Caving	WS Ma	A	E2 : Schedule repair of erosion site prior to the next inspection.	37.457355 °	37.456630 °	116	
								-121.033737 °	-121.033797 °	Y	
								DWR ID: DWR_RD2063_01_s_2012_116			
16	1.95	1.95	Earthen Levee	Encroachments	LS En	A/W	GA : Garbage Inspector Comments: Garbage at landside toe and berm.	37.456460 °	37.456460 °	117	
								-121.033730 °	-121.033730 °	Y	
								DWR ID: DWR_RD2063_01_s_2012_117			
17	2.31	2.47	Earthen Levee	Erosion / Bank Caving	LS Ma	C	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landowner repaired erosion sites and replace irrigation valves at landside toe.	37.451927 °	37.450290 °	12	
								-121.030555 °	-121.028592 °		
								DWR ID: DWR_RD2063_01_s_2012_12			
18	2.32	2.52	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.451895 °	37.449892 °	1	
								-121.030492 °	-121.028072 °		
								DWR ID: DWR_RD2063_01_s_2012_1			
19	2.53	2.56	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.449787 °	37.449432 °	13	
								-121.027943 °	-121.027472 °	Y	
								DWR ID: DWR_RD2063_01_s_2012_13			
20	2.72	2.79	Earthen Levee	Animal Control	LS Ma	M	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.447512 °	37.446574 °	982	
								-121.026050 °	-121.025643 °		
								DWR ID: DWR_RD2063_01_s_2012_982			
21	2.78	2.84	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.446722 °	37.445925 °	14	
								-121.025640 °	-121.025528 °		
								DWR ID: DWR_RD2063_01_s_2012_14			
22	3.06	3.06	Earthen Levee	Encroachments	LS En	M	EQ : Equipment Inspector Comments: Farm tractor stored at landside toe should be removed.	37.442822 °	37.442822 °	28	
								-121.025417 °	-121.025417 °	Y	
								DWR ID: DWR_RD2063_01_f_2012_28			
23	3.06	3.06	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several erosion sites located along waterside slope and toe approx. 100' plus feet long, 18-24 inches vertical cuts.	37.442816 °	37.442816 °	30	
								-121.025421 °	-121.025421 °	Y	
								DWR ID: DWR_RD2063_01_f_2012_30			

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LWR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
24	3.07	3.26	Supplemental DWR Erosion Survey	WS C Ma	Inspector Comments: 07/24/2012: Learned from the district that the upstream erosion has been repaired by placing broken concrete blocks. Visual inspection at the repaired site found no new erosion development. No significant change observed on the site at the downstream section of the repaired erosion site. 10/14/2011. This site was reported on Jan. 18. 2011. The first 100' of erosion appears to be a pervious cut with fresh activity. At station 2+00 the district president indicated that 60 - 80' of material eroded. The remainder berm width is at least 32 ft from the levee toe. As the levee is not at risk at this time, the site is not rated, but needs to be closely monitored for possible erosion failure during the upcoming flooding season. [2012 Site ID:RD2063U01RM103.49]	37.442305 ° -121.022727 °	37.442305 ° -121.022727 °	34			
25	3.16	3.16	Earthen Levee	Encroachments WS M En	RA : Ramp		Inspector Comments: Unauthorized ramp installed to access erosion site. Ramp should be removed or the district should apply for a permit to maintain ramp.	37.442510 ° -121.023772 °	37.442510 ° -121.023772 °	26 Y	
26	3.41	3.70	Earthen Levee	Vegetation LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		Inspector Comments: landside toe	37.440438 ° -121.020487 °	37.436906 ° -121.017835 °	38	
27	3.82	3.82	Earthen Levee	Animal Control LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.			37.435732 ° -121.016090 °	37.435732 ° -121.016090 °	29 Y	
28	3.96	4.10	Earthen Levee	Vegetation LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.434403 ° -121.014298 °	37.432653 ° -121.013327 °	17 Y	
29	4.04	4.04	Earthen Levee	Encroachments WS C En	PI : Pipe		Inspector Comments: Inch and a half electrical conduit 1 foot below levee crown and slope should be removed.	37.433255 ° -121.013560 °	37.433255 ° -121.013560 °	15	
30	4.54	4.61	Earthen Levee	Encroachments LS C En	DT : Ditch		Inspector Comments: Irrigation ditch at landside toe also erosion on landside toe.	37.428875 ° -121.007517 °	37.429223 ° -121.006215 °	118	
31	4.68	4.68	Earthen Levee	Encroachments WS M En	CR : Crops		Inspector Comments: Landowner planted grape vines and fruit trees on waterside berm without a permit from the CVFPB.	37.429638 ° -121.005348 °	37.429638 ° -121.005348 °	31 Y	
32	4.71	4.71	Earthen Levee	Trim / Thin Trees LS A/W Ma	T1 : Trim trees to at least five feet above ground level.			37.429892 ° -121.004768 °	37.429892 ° -121.004768 °	20	
33	5.05	5.11	Earthen Levee	Encroachments LS M En	DT : Ditch			DWR ID: DWR_RD2063_01_s_2012_20			

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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile	End						Start	End	
34	5.12	5.12	Earthen Levee	Encroachments	WS	C Ma	GA : Garbage Inspector Comments: Old pipes on waterside slope should be removed.	37.427375 °	37.427375 °	21 -120.999343 ° -120.999343 ° DWR ID: DWR_RD2063_01_s_2012_21
35	5.48	5.48	Earthen Levee	Slope Stability	LS	A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.422827 °	37.422827 °	32 -121.001788 ° -121.001788 ° DWR ID: DWR_RD2063_01_s_2012_32
36	6.05	6.63	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.416235 °	37.411285 °	22 -120.997563 ° -120.998188 ° DWR ID: DWR_RD2063_01_s_2012_22
37	6.09	6.09	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.415887 °	37.415887 °	5 -120.998083 ° -120.998083 ° DWR ID: DWR_RD2063_01_s_2012_5
38	6.15	6.36	Earthen Levee	Vegetation	LS	A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.415488 °	37.413473 °	120 -120.998988 ° -121.001680 ° Y DWR ID: DWR_RD2063_01_s_2012_120
39	6.89	6.89	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.411785 °	37.411785 °	39 -120.993548 ° -120.993548 ° DWR ID: DWR_RD2063_01_s_2012_39
40	7.69	7.69	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.403516 °	37.403516 °	7 -120.985718 ° -120.985718 ° DWR ID: DWR_RD2063_01_s_2012_7
41	7.81	7.90	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.402400 °	37.401563 °	23 -120.984087 ° -120.982775 ° DWR ID: DWR_RD2063_01_s_2012_23
42	7.88	7.88	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.401774 °	37.401774 °	9 -120.983132 ° -120.983132 ° DWR ID: DWR_RD2063_01_s_2012_9
43	8.06	8.23	Earthen Levee	Vegetation	LS	A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.400930 °	37.401148 °	24 -120.980157 ° -120.977320 ° DWR ID: DWR_RD2063_01_s_2012_24
44	8.17	8.17	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.401222 °	37.401222 °	33 -120.978317 ° -120.978317 ° DWR ID: DWR_RD2063_01_s_2012_33
45	8.54	8.54	Earthen Levee	Encroachments	LS	U En	CR : Crops Inspector Comments: Farmer stored hay at landside toe.	37.398673 °	37.398673 °	121 -120.972922 ° -120.972922 ° Y DWR ID: DWR_RD2063_01_s_2012_121
46	9.44	9.60	Earthen Levee	Vegetation	LS	A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.390727 °	37.390683 °	25 -120.962520 ° -120.959570 ° DWR ID: DWR_RD2063_01_s_2012_25
47	9.67	9.67	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: 12-24 inch vertical cut at landside toe.	37.390668 °	37.390668 °	122 -120.958305 ° -120.958305 ° Y DWR ID: DWR_RD2063_01_s_2012_122

* Location LS : Land Side WS : Water Side CR : Crown
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** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
48	10.40	10.40	Earthen Levee	Erosion / Bank Caving	LS U Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: 36-48 inch vertical cut at landside toe.	37.390538 ° -120.945318 °	37.390538 ° -120.945318 °	123 Y	

DWR ID: DWR\_RD2063\_01\_s\_2012\_123

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**Flood Control Project Maintenance**  
**Levee Inspections**

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**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.02
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee slope.

richard\_f\_20121115\_924.jpg



Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at ditch on landside berm and toe.

richard\_f\_20121101\_832.jpg



Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at canal-ditch at landside berm and toe.

richard\_f\_20121101\_833.jpg



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Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at canal-ditch on landside berm.	
<i>richard_f_20121101_834.jpg</i>	



Levee Mile Report Line	8
Start Levee Mile	0.14
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at prunings stacked on landside toe and berm.	
<i>richard_f_20121101_831.jpg</i>	



Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at ramp and equipment working pad on landside slope with a 18-20" vertical cut at shoulder.	
<i>richard_f_20121101_817.jpg</i>	



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Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at 18-20" vertical cut for ramp on landside shoulder and slope	
richard_f_20121101_818.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at vertical cut on landside shoulder and slope (Spring 2012)	
richard_f_20121101_819.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking east at landside slope damage (six to eight inch erosion) by vehicle	
richard_f_20121101_820.jpg	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking west at landside slope damage cause by vehicle traffic.	
richard_f_20121101_821.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking east at squirrel holes on landside slope.	
richard_f_20121101_822.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at erosion along waterward slope.	
richard_f_20121101_843.jpg	



<b>* Location</b>
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A/W : Acceptable but Monitor & Maintain

<b>+ Issue Type</b>
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion along waterward slope.	
<i>richard_f_20121101_844.jpg</i>	



Levee Mile Report Line	15
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at erosion along waterward slope.	
<i>richard_f_20121101_845.jpg</i>	



Levee Mile Report Line	15
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at repaired erosion along waterside slope and toe. (Fall 2012)	
<i>richard_f_20121115_916.jpg</i>	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at garbage at landside toe.	
richard_f_20121101_846.jpg	



Levee Mile Report Line	19
Start Levee Mile	2.53
End Levee Mile	2.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on landside toe.	
richard_f_20121101_829.jpg	



Levee Mile Report Line	19
Start Levee Mile	2.53
End Levee Mile	2.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at cleared vegetation site on landside toe. (Fall 2012)	
richard_f_20121115_918.jpg	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at tractor at landside toe.



Levee Mile Report Line	23
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southwest at river erosion at waterside slope and toe.



Levee Mile Report Line	23
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking northwest at river erosion at waterside slope and toe.



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	3.16
End Levee Mile	3.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at unauthorized ramp on waterside slope.	
richard_f_20121101_836.jpg	



Levee Mile Report Line	27
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking at typical view of a squirrel hole on landside shoulder.	
richard_f_20121101_837.jpg	



Levee Mile Report Line	28
Start Levee Mile	3.96
End Levee Mile	4.10
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense vegetation along landside toe.	
richard_f_20121115_922.jpg	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at grapevines and fruit trees on waterside berm.	
richard_f_20121101_838.jpg	



Levee Mile Report Line	33
Start Levee Mile	5.05
End Levee Mile	5.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at irrigation ditch at landside toe.	
richard_f_20121101_848.jpg	



Levee Mile Report Line	38
Start Levee Mile	6.15
End Levee Mile	6.36
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on landside toe.	
richard_f_20121101_849.jpg	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2063 Crows Landing**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/14/2012 11/14/2012	Richard Willoughby

Levee Mile Report Line	45
Start Levee Mile	8.54
End Levee Mile	8.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at hay stacked near landside toe.	
richard_f_20121101_850.jpg	



Levee Mile Report Line	47
Start Levee Mile	9.67
End Levee Mile	9.67
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking northwest at landside erosion at levee toe.	
richard_f_20121101_851.jpg	



Levee Mile Report Line	48
Start Levee Mile	10.40
End Levee Mile	10.40
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking northwest at landside erosion at levee toe.	
richard_f_20121101_852.jpg	



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